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WEEKLY
REPORTWeek Ending
December 21, 1968

Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

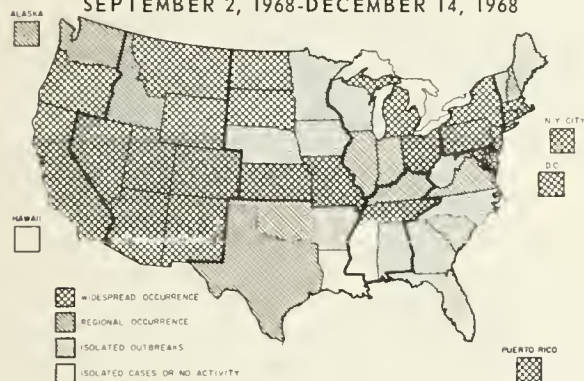
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

EPIDEMIOLOGIC NOTES AND REPORTS INFLUENZA - United States

As of December 21, 1968, 47 states (all but Hawaii, Louisiana, and Mississippi) have reported one or more outbreaks of influenza-like illness in the civilian population. Widespread occurrence has been reported in 23 states, regional occurrence in 10 states, and isolated occurrence in 14 states (Figure 1). The states with widespread occurrence are located predominantly in the Middle Atlantic, Mountain, and Pacific Divisions, while the South Atlantic, East South Central, and West South Central Divisions have the least influenza activity.

Figure 1

INFLUENZA - UNITED STATES SEPTEMBER 2, 1968-DECEMBER 14, 1968



Epidemiologic Notes and Reports

Influenza - United States	169
Follow-up of Typhoid Fever Outbreak - Missouri	170
Measles - Rocky Mount, North Carolina	476
Editor's Note: Pneumonia-Influenza Deaths in 122 United States Cities	169
Summary of Reported Cases of Infectious Syphilis	171

Some excess school absenteeism has occurred in 39 states, but only 9 states have reported extensive school absenteeism. A few public or parochial schools in 17 states and one or more colleges or universities in 22 states dismissed classes early for the Christmas vacation. Excess industrial absenteeism has been reported in 27 states. Although some increase in hospital admissions has been observed in 20 states, to date the community hospital facilities have been able to handle this increased load.

The 51st week was the third successive one in which excess total mortality and excess pneumonia-influenza mortality were seen for the country as a whole (Figure 2). Excess pneumonia-influenza mortality was observed in all geographic divisions except the East South Central. This was the first week of excess mortality in the South Atlantic and Pacific Divisions.

(Reported by Respiratory Viral Diseases Unit, CDC.)

Editorial Note

The information in this report is based on data derived from the regular surveillance system in addition to a
(Continued on page 470)

EDITOR'S NOTE: PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES

The MMWR periodically publishes graphic material representing the trends in mortality statistics compiled from 122 United States cities of 100,000 population or greater.* This information is an integral part of the surveillance of influenza in the United States.

Excess mortality is a reliable index of the extent and impact of influenza epidemics in the United States. The "expected" number of deaths and the normal variability (termed the "epidemic threshold") are derived from the previous five-year mortality reports, eliminating the effects of influenza epidemics.** Excess mortality occurs when the number of reported deaths exceeds the "epidemic threshold" for two or more consecutive weeks. Projections

from these data of the expected number of deaths for the country as a whole and for the 9 major geographic divisions are depicted in Figure 2.

Interpretation of the information can only be made in terms of trends, and not absolute numbers. The information should not be related to any single reporting area. During the remainder of this influenza season and as a part of general influenza surveillance, the MMWR will continue to publish these data periodically to document the occurrence, extent, and impact of influenza outbreaks.

* (See MMWR, Vol. 17, No. 40, 48, 49, and 50).

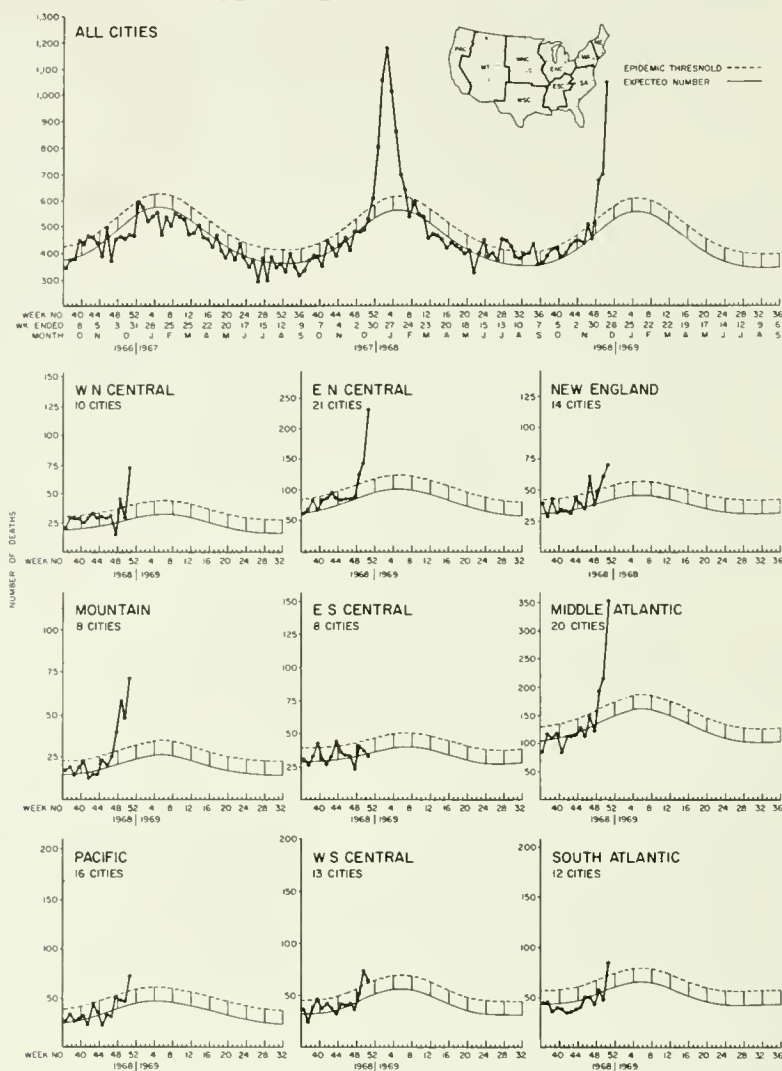
** (See MMWR, Vol. 14, No. 1).

INFLUENZA - (Continued from front page)

telephone questionnaire survey conducted on December 19, 1968. The information was obtained with the cooperation

of epidemiologists in all 50 states, the District of Columbia, and several major cities.

Figure 2
PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES



FOLLOW-UP OF TYPHOID FEVER OUTBREAK - Missouri

Stool cultures performed on 175 of the 189 persons who attended the Church of God summer camp in Audrain County, Missouri, in early August (MMWR, Vol. 17, Nos. 36 and 40), have revealed *Salmonella typhi* phage type C1 in four of the 163 asymptomatic persons. Three of these are young siblings of documented cases. The fourth is a 65-year-old man who gave a history of clinically diagnosed typhoid fever 30 years ago. Four stool cultures from the man (the last performed 3-12 months after the camp meeting) have all been positive. One urine culture was negative. Serologic studies have revealed a Vi antibody titer of 1:50, a typhoid O of 1:20, and a typhoid H of 0. The patient gave no history of gallbladder disease or typhoid immunization. He is

presently receiving a course of high dosage ampicillin therapy in an attempt to eradicate the probable chronic carrier state.

The man was present at the camp during the entire 11-day meeting and helped install the water pump and pipes into the well the day before the camp opened. He also participated in the following, possibly significant activities: drying dishes, chipping ice for the water keg, and shucking corn.

Although it is quite likely that this probable carrier introduced the organism into the camp environment, the vehicle of spread remains uncertain. Epidemiologic evi-

(Continued on page 476)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas November 1968 and November 1967 - Provisional Data

Reporting Area	November		Cumulative January-November		Reporting Area	November		Cumulative January-November	
	1968	1967	1968	1967		1968	1967	1968	1967
NEW ENGLAND.....	32	32	317	323	EAST SOUTH CENTRAL.....	120	110	1,256	1,596
Maine.....	-	1	5	7	Kentucky.....	11	20	112	162
New Hampshire.....	-	-	4	9	Tennessee.....	24	28	293	280
Vermont.....	-	-	-	3	Alabama.....	31	48	508	832
Massachusetts.....	17	21	202	188	Mississippi.....	54	14	343	322
Rhode Island.....	4	4	27	31	WEST SOUTH CENTRAL.....	298	266	3,228	2,948
Connecticut.....	11	6	79	85	Arkansas.....	6	11	112	121
MIDDLE ATLANTIC.....	340	295	3,225	3,294	Louisiana.....	52	63	769	612
Upstate New York.....	34	24	303	281	Oklahoma.....	5	11	74	106
New York City.....	239	156	2,087	1,934	Texas.....	235	181	2,273	2,109
Pa. (Excl. Phila.).....	16	27	204	235	MOUNTAIN.....	42	42	444	539
Philadelphia.....	12	33	217	303	Montana.....	-	1	5	6
New Jersey.....	39	55	414	541	Idaho.....	1	-	3	16
EAST NORTH CENTRAL.....	224	304	2,623	2,978	Wyoming.....	1	-	4	13
Ohio.....	36	64	419	580	Colorado.....	3	2	20	57
Indiana.....	34	28	327	174	New Mexico.....	19	14	151	166
Downstate Illinois.....	14	15	196	136	Arizona.....	16	21	216	250
Chicago.....	77	99	918	906	Utah.....	1	1	9	8
Michigan.....	62	95	738	1,157	Nevada.....	1	3	36	23
Wisconsin.....	1	3	25	25	PACIFIC.....	152	157	1,698	1,662
WEST NORTH CENTRAL.....	39	55	366	348	Washington.....	3	6	42	56
Minnesota.....	7	10	51	55	Oregon.....	-	1	39	41
Iowa.....	10	3	47	40	California.....	148	-	1,608	1,554
Missouri.....	17	31	183	127	Alaska.....	-	-	2	3
North Dakota.....	-	1	5	4	Hawaii.....	1	1	7	8
South Dakota.....	-	4	30	35	U. S. TOTAL.....	1,612	1,737	17,847	19,481
Nebraska.....	3	2	22	36	TERRITORIES.....	81	112	1,037	883
Kansas.....	2	4	28	51	Puerto Rico.....	79	108	989	844
SOUTH ATLANTIC.....	365	476	4,690	5,793	Virgin Islands.....	2	4	48	39
Delaware.....	-	7	32	67	Note: Cumulative Totals include revised and delayed reports through previous months.				
Maryland.....	34	31	436	566					
District of Columbia.....	42	91	565	801					
Virginia.....	17	12	278	270					
West Virginia.....	2	2	31	22					
North Carolina.....	27	51	521	706					
South Carolina.....	27	52	470	736					
Georgia.....	69	71	828	892					
Florida.....	147	159	1,529	1,733					

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	51st WEEK ENDED		MEDIAN 1963 - 1967	CUMULATIVE, FIRST 51 WEEKS		
	DECEMBER 21, 1968	DECEMBER 23, 1967		1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis	42	33	33	4,291	2,969	2,115
Brucellosis	3	-	8	224	244	248
Diphtheria	2	5	7	240	204	204
Encephalitis, primary:						
Arthropod-borne & unspecified	31	25	---	1,428	1,566	---
Encephalitis, post-infectious	5	11	---	457	750	---
Hepatitis, serum	71	48	664	4,607	2,312	37,137
Hepatitis, infectious	732	794	3	44,797	38,054	103
Malaria	27	35	3	2,314	2,058	262,101
Measles (rubeola)	231	343	2,775	22,279	61,856	2,762
Meningococcal infections, total	33	42	50	2,497	2,113	---
Civilian	30	41	---	2,288	1,983	---
Military	3	1	---	209	130	---
Mumps	2,203	---	---	146,948	---	---
Poliomyelitis, total	-	1	1	56	46	99
Paralytic	-	1	1	56	33	90
Rubella (German measles)	404	375	---	48,134	43,853	---
Streptococcal sore throat & scarlet fever....	10,029	8,372	8,372	425,241	438,654	387,809
Tetanus	2	3	3	158	226	266
Tularemia	3	-	4	172	165	238
Typhoid fever	8	-	4	402	392	442
Typhus, tick-borne (Rky. Mt. spotted fever) ..	-	1	1	277	298	252
Rabies in animals	50	44	44	3,278	4,112	4,112

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Rabies in man:	1
Botulism:	7	Rubella, Congenital Syndrome: Miss.-1	6
Leptospirosis:	56	Trichinosis:	64
Plague:	3	Typhus, murine:	33
Psittacosis:	42		

Excludes Reports From Florida And Texas - Holiday

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
DECEMBER 21, 1968 AND DECEMBER 23, 1967 (51st WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA
					Primary including unsp. cases		Post- Infectious	Serum	Infectious		
	1968	1967			1968	1968	1967	1968	1968	1968	
UNITED STATES...	42	33	3	2	31	25	5	71	732	794	27
NEW ENGLAND.....	-	-	-	-	-	3	1	2	43	42	2
Maine*.....	-	-	-	-	-	-	-	-	2	3	-
New Hampshire*.....	-	-	-	-	-	-	-	-	1	2	-
Vermont.....	-	-	-	-	-	-	1	-	-	-	-
Massachusetts.....	-	-	-	-	-	1	-	1	24	16	1
Rhode Island.....	-	-	-	-	-	2	-	-	11	5	-
Connecticut.....	-	-	-	-	-	-	-	1	5	16	1
MIDDLE ATLANTIC.....	11	1	-	-	2	1	-	17	118	110	-
New York City.....	3	1	-	-	-	-	-	11	16	16	-
New York, up-State.....	1	-	-	-	-	-	-	1	45	34	-
New Jersey.....	4	-	-	-	-	-	-	3	23	20	-
Pennsylvania.....	3	-	-	-	2	1	-	2	34	40	-
EAST NORTH CENTRAL...	12	4	-	-	5	7	-	3	123	120	1
Ohio*.....	5	-	-	-	2	2	-	-	35	46	-
Indiana.....	2	-	-	-	-	-	-	1	9	18	-
Illinois.....	2	-	-	-	1	-	-	-	30	19	1
Michigan.....	3	4	-	-	2	5	-	2	44	36	-
Wisconsin.....	-	-	-	-	-	-	-	-	5	1	-
WEST NORTH CENTRAL...	1	11	3	-	2	10	2	1	35	47	1
Minnesota.....	-	-	-	-	-	-	2	1	7	23	1
Iowa*.....	1	1	1	-	1	10	-	-	11	6	-
Missouri.....	-	-	-	-	-	-	-	-	12	9	-
North Dakota.....	-	-	2	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	1	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	3	-
Kansas.....	-	10	-	-	1	-	-	-	4	6	-
SOUTH ATLANTIC.....	-	3	-	-	2	-	-	3	56	73	7
Delaware.....	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	2	-	-	-	-	-	-	12	10	-
Dist. of Columbia..	-	-	-	-	-	-	-	1	-	-	-
Virginia.....	-	-	-	-	2	-	-	2	12	10	-
West Virginia.....	-	1	-	-	-	-	-	-	2	4	-
North Carolina.....	-	-	-	-	-	-	-	-	13	2	7
South Carolina.....	-	-	-	-	-	-	-	-	5	-	-
Georgia.....	-	-	-	-	-	-	-	-	12	41	-
Florida.....	---	-	---	---	---	-	---	---	---	6	---
EAST SOUTH CENTRAL...	3	2	-	1	3	3	-	-	36	61	-
Kentucky.....	1	2	-	-	-	-	-	-	10	33	-
Tennessee.....	1	-	-	-	-	3	-	-	17	18	-
Alabama.....	1	-	-	1	-	-	-	-	7	4	-
Mississippi.....	-	-	-	-	3	-	-	-	2	6	-
WEST SOUTH CENTRAL...	1	1	-	1	-	1	-	3	26	81	1
Arkansas.....	-	-	-	-	-	-	-	-	-	6	-
Louisiana*.....	-	-	-	1	-	-	-	3	18	14	1
Oklahoma.....	1	1	-	-	-	1	-	-	8	28	-
Texas.....	---	-	---	---	---	-	---	---	---	33	---
MOUNTAIN.....	1	-	-	-	9	-	-	1	70	65	-
Montana.....	-	-	-	-	-	-	-	-	1	6	-
Idaho.....	-	-	-	-	-	-	-	-	3	1	-
Wyoming*.....	-	-	-	-	7	-	-	-	-	-	-
Colorado.....	1	-	-	-	2	-	-	1	26	7	-
New Mexico.....	-	-	-	-	-	-	-	-	25	5	-
Arizona*.....	-	-	-	-	-	-	-	-	9	41	-
Utah.....	-	-	-	-	-	-	-	-	6	5	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	13	11	-	-	8	-	2	41	225	195	15
Washington.....	1	-	-	-	-	-	-	-	24	16	-
Oregon.....	2	-	-	-	-	-	-	2	13	20	1
California.....	10	9	-	-	8	-	2	39	186	155	14
Alaska.....	-	-	-	-	-	-	-	-	-	2	-
Hawaii.....	-	2	-	-	-	-	-	-	2	2	-
Puerto Rico.....	-	-	-	-	-	-	-	-	23	15	-

*Delayed reports: Aseptic meningitis: La. delete 4

Diphtheria: Ariz. 3

Encephalitis, primary: Ohio delete 1, Iowa 2, La. 4

Encephalitis, post-infectious: N.H. 1, Iowa 1

Hepatitis, serum: Wyo. 3

Hepatitis, infectious: Me. 5

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 21, 1968 AND DECEMBER 23, 1967 (51st WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
		Cumulative			Cumulative			Total	Paralytic		
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES...	231	22,279	61,856	33	2,497	2,113	2,203	-	-	56	404
NEW ENGLAND.....	21	1,321	946	-	139	84	344	-	-	1	42
Maine*.....	-	38	262	-	6	3	28	-	-	-	-
New Hampshire.....	-	150	78	-	8	4	-	-	-	-	-
Vermont.....	-	3	34	-	1	2	1	-	-	-	-
Massachusetts*.....	4	387	409	-	74	38	180	-	-	1	20
Rhode Island.....	10	65	62	-	9	6	-	-	-	-	-
Connecticut.....	7	678	101	-	41	31	135	-	-	-	22
MIDDLE ATLANTIC.....	80	4,697	2,618	7	444	352	110	-	-	1	35
New York City.....	24	2,408	523	-	89	68	25	-	-	-	11
New York, Up-State.....	24	1,371	657	2	74	87	NN	-	-	1	13
New Jersey.....	19	721	651	4	160	111	85	-	-	-	11
Pennsylvania.....	13	197	787	1	121	86	NN	-	-	-	-
EAST NORTH CENTRAL...	56	4,229	6,285	4	313	290	654	-	-	10	79
Ohio.....	2	331	1,218	-	84	95	60	-	-	2	10
Indiana.....	10	740	673	1	45	31	153	-	-	3	10
Illinois.....	7	1,437	1,242	1	71	67	-	-	-	2	15
Michigan.....	15	343	1,039	-	89	76	153	-	-	3	19
Wisconsin.....	22	1,378	2,113	2	24	21	288	-	-	-	25
WEST NORTH CENTRAL...	31	484	3,003	1	139	101	338	-	-	3	89
Minnesota.....	-	19	139	-	29	22	3	-	-	-	-
Iowa.....	19	165	818	-	14	22	289	-	-	1	83
Missouri.....	-	81	340	1	49	22	2	-	-	2	1
North Dakota.....	4	142	891	-	4	3	26	-	-	-	5
South Dakota.....	-	4	58	-	5	7	NN	-	-	-	-
Nebraska.....	8	63	660	-	9	15	18	-	-	-	-
Kansas.....	-	10	97	-	29	10	-	-	-	-	-
SOUTH ATLANTIC.....	4	1,796	7,385	6	498	414	121	-	-	3	25
Delaware.....	1	20	51	-	12	8	1	-	-	-	2
Maryland.....	-	103	182	-	44	57	28	-	-	-	-
Dist. of Columbia..	-	6	26	-	17	16	-	-	-	1	-
Virginia*.....	-	425	2,342	2	50	47	5	-	-	-	7
West Virginia.....	-	326	1,484	-	14	38	63	-	-	1	13
North Carolina.....	1	322	939	1	99	88	NN	-	-	1	-
South Carolina.....	2	28	514	-	63	34	24	-	-	-	3
Georgia.....	-	4	42	3	96	60	-	-	-	-	-
Florida.....	---	562	1,805	---	103	66	---	---	---	-	---
EAST SOUTH CENTRAL...	2	508	5,518	3	222	168	56	-	-	1	11
Kentucky.....	1	107	1,433	-	98	48	28	-	-	1	7
Tennessee.....	1	65	2,050	2	70	74	25	-	-	-	4
Alabama.....	-	95	1,357	1	29	29	2	-	-	-	-
Mississippi.....	-	241	678	-	25	17	1	-	-	-	-
WEST SOUTH CENTRAL...	2	5,270	18,210	3	358	271	27	-	-	24	9
Arkansas.....	-	2	1,404	-	21	41	-	-	-	1	-
Louisiana.....	-	25	159	3	103	104	-	-	-	-	-
Oklahoma.....	2	132	3,359	-	56	19	27	-	-	2	9
Texas.....	---	5,111	13,288	---	178	107	---	---	---	21	---
MOUNTAIN.....	8	1,095	4,905	1	46	40	101	-	-	1	28
Montana.....	-	58	337	1	7	5	9	-	-	-	1
Idaho.....	-	21	409	-	12	3	2	-	-	-	1
Wyoming.....	-	55	206	-	3	1	-	-	-	-	1
Colorado*.....	-	525	1,632	-	14	13	38	-	-	-	14
New Mexico.....	8	172	609	-	1	5	24	-	-	-	4
Arizona.....	-	235	1,060	-	5	6	23	-	-	1	4
Utah.....	-	21	383	-	1	4	5	-	-	-	3
Nevada.....	-	8	269	-	3	3	-	-	-	-	-
PACIFIC.....	27	2,879	12,986	8	338	393	452	-	-	12	86
Washington.....	4	605	5,681	-	51	38	172	-	-	1	41
Oregon.....	4	592	1,713	-	25	31	24	-	-	-	5
California.....	19	1,636	5,269	8	244	309	233	-	-	11	40
Alaska.....	-	11	141	-	4	11	13	-	-	-	-
Hawaii.....	-	35	182	-	14	4	10	-	-	-	-
Puerto Rico.....	13	512	2,243	1	21	15	18	-	-	-	-

*Delayed reports: Measles: Mass. delete 3, Va. 77, Colo. 1

Mumps: Me. 2

Rubella: Me. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 21, 1968 AND DECEMBER 23, 1967 (51st WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES...	10,029	2	158	3	172	8	402	-	277	50	3,278
NEW ENGLAND.....	1,387	-	4	-	47	-	13	-	2	-	74
Maine.....	20	-	-	-	-	-	2	-	-	-	55
New Hampshire.....	44	-	1	-	-	-	1	-	-	-	2
Vermont.....	1	-	-	-	47	-	-	-	-	-	11
Massachusetts.....	342	-	1	-	-	-	7	-	2	-	5
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	980	-	2	-	-	-	3	-	-	-	1
MIDDLE ATLANTIC.....	322	-	19	-	10	-	35	-	22	-	55
New York City.....	9	-	11	-	-	-	18	-	-	-	-
New York, Up-State.....	258	-	4	-	7	-	8	-	5	-	45
New Jersey.....	NN	-	1	-	-	-	4	-	7	-	-
Pennsylvania.....	55	-	3	-	3	-	5	-	10	-	10
EAST NORTH CENTRAL...	953	-	17	-	11	1	50	-	9	-	284
Ohio.....	148	-	2	-	1	-	20	-	7	-	93
Indiana.....	268	-	2	-	1	-	7	-	-	-	90
Illinois.....	184	-	8	-	8	-	20	-	2	-	39
Michigan.....	187	-	3	-	1	1	1	-	-	-	17
Wisconsin.....	166	-	2	-	-	-	2	-	-	-	45
WEST NORTH CENTRAL...	415	-	15	-	17	1	46	-	9	22	823
Minnesota.....	28	-	2	-	-	-	2	-	-	5	265
Iowa.....	170	-	4	-	-	-	2	-	1	4	125
Missouri.....	8	-	5	-	8	-	30	-	3	7	124
North Dakota.....	104	-	-	-	-	-	1	-	-	4	135
South Dakota.....	46	-	1	-	3	-	2	-	4	-	97
Nebraska.....	10	-	3	-	1	1	5	-	1	-	27
Kansas.....	49	-	-	-	5	-	4	-	-	2	50
SOUTH ATLANTIC.....	692	-	32	-	12	-	64	-	142	3	403
Delaware.....	14	-	-	-	-	-	-	-	-	-	1
Maryland.....	29	-	3	-	-	-	9	-	18	-	6
Dist. of Columbia..	-	-	2	-	-	-	1	-	-	-	2
Virginia.....	241	-	4	-	3	-	10	-	44	3	141
West Virginia.....	179	-	2	-	-	-	-	-	2	-	51
North Carolina.....	47	-	2	-	3	-	4	-	39	-	12
South Carolina.....	171	-	4	-	-	-	4	-	9	-	-
Georgia.....	11	-	3	-	4	-	15	-	27	-	83
Florida.....	---	---	12	---	2	---	21	---	3	---	107
EAST SOUTH CENTRAL...	1,408	2	19	-	11	2	50	-	57	5	700
Kentucky.....	167	-	1	-	2	-	12	-	10	4	378
Tennessee.....	1,044	1	8	-	7	1	22	-	39	1	288
Alabama.....	74	1	7	-	-	1	3	-	5	-	27
Mississippi.....	123	-	3	-	2	-	13	-	3	-	7
WEST SOUTH CENTRAL...	82	-	31	3	51	-	54	-	30	1	494
Arkansas.....	5	-	5	-	15	-	20	-	6	-	62
Louisiana.....	5	-	10	-	7	-	6	-	1	-	48
Oklahoma.....	72	-	-	3	12	-	15	-	14	1	125
Texas.....	---	---	16	---	17	---	13	---	9	---	259
MOUNTAIN.....	2,676	-	1	-	9	1	22	-	5	2	92
Montana.....	51	-	-	-	-	-	-	-	-	-	-
Idaho.....	224	-	-	-	-	-	-	-	1	-	-
Wyoming.....	669	-	-	-	1	-	1	-	-	-	4
Colorado.....	926	-	-	-	3	-	5	-	4	-	4
New Mexico.....	546	-	-	-	-	1	9	-	-	1	40
Arizona.....	121	-	1	-	-	-	6	-	-	1	40
Utah.....	138	-	-	-	5	-	-	-	-	-	1
Nevada.....	1	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	2,094	-	20	-	4	3	68	-	1	17	353
Washington.....	1,236	-	1	-	-	-	2	-	-	-	2
Oregon.....	92	-	1	-	1	-	5	-	-	-	6
California.....	701	-	18	-	3	3	60	-	1	17	345
Alaska.....	19	-	-	-	-	-	1	-	-	-	-
Hawaii.....	46	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	3	1	13	-	-	-	5	-	-	-	20

*Delayed reports: SST: Me. 14

Week No. TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED DECEMBER 21, 1968

51 (By place of occurrence and week of filing certificate. Exclude fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	823	507	70	24	SOUTH ATLANTIC:	1,427	755	84	51
Boston, Mass.-----	279	146	19	9	Atlanta, Ga.-----	132	63	4	5
Bridgeport, Conn.-----	50	25	7	1	Baltimore, Md.-----	301	157	16	9
Cambridge, Mass.-----	27	17	7	-	Charlotte, N. C.-----	59	28	1	3
Fall River, Mass.-----	28	21	-	1	Jacksonville, Fla.-----	121	56	4	2
Hartford, Conn.-----	58	36	4	3	Miami, Fla.-----	128	71	2	7
Lowell, Mass.-----	34	25	6	1	Norfolk, Va.-----	46	16	5	7
Lynn, Mass.-----	17	11	1	-	Richmond, Va.-----	104	60	8	4
New Bedford, Mass.-----	28	20	2	1	Savannah, Ga.-----	45	20	-	-
New Haven, Conn.-----	45	31	2	-	St. Petersburg, Fla.-----	100	76	11	2
Providence, R. I.-----	67	45	6	5	Tampa, Fla.-----	80	55	5	1
Somerville, Mass.-----	17	11	1	-	Washington, D. C.-----	248	117	21	7
Springfield, Mass.-----	67	44	8	1	Wilmington, Del.-----	63	36	7	4
Waterbury, Conn.-----	31	23	2	2					
Worcester, Mass.-----	75	52	5	-	EAST SOUTH CENTRAL:	700	374	34	37
					Birmingham, Ala.-----	122	63	2	6
MIDDLE ATLANTIC:	4,328	2,538	352	143	Chattanooga, Tenn.-----	57	35	5	3
Albany, N. Y.-----	55	36	3	4	Knoxville, Tenn.-----	31	22	1	1
Allentown, Pa.-----	49	30	9	3	Louisville, Ky.-----	146	79	17	10
Buffalo, N. Y.-----	182	109	10	7	Memphis, Tenn.-----	156	75	3	10
Camden, N. J.-----	44	22	3	2	Mobile, Ala.-----	51	36	-	1
Elizabeth, N. J.-----	43	25	6	2	Montgomery, Ala.-----	36	21	2	1
Erie, Pa.-----	48	35	6	1	Nashville, Tenn.-----	101	43	4	5
Jersey City, N. J.-----	79	40	6	2					
Newark, N. J.-----	107	58	12	5	WEST SOUTH CENTRAL:	1,212	630	64	83
New York City, N. Y.-----	2,342	1,361	208	63	Austin, Tex.-----	37	23	9	2
Paterson, N. J.-----	40	24	3	6	Baton Rouge, La.-----	46	30	5	2
Philadelphia, Pa.-----	593	332	21	23	Corpus Christi, Tex.-----	28	11	1	3
Pittsburgh, Pa.-----	224	125	18	11	Dallas, Tex.-----	184	97	6	7
Reading, Pa.-----	66	45	7	1	El Paso, Tex.-----	32	17	5	1
Rochester, N. Y.-----	129	87	19	2	Fort Worth, Tex.-----	84	48	5	4
Schenectady, N. Y.-----	27	18	1	1	Houston, Tex.-----	238	93	7	31
Scranton, Pa.-----	44	33	2	3	Little Rock, Ark.-----	52	23	4	2
Syracuse, N. Y.-----	109	66	2	4	New Orleans, La.-----	157	83	6	4
Trenton, N. J.-----	71	39	5	3	Oklahoma City, Okla.-----	91	49	2	8
Utica, N. Y.-----	27	18	5	-	San Antonio, Tex.-----	134	86	5	11
Yonkers, N. Y.-----	49	35	6	-	Shreveport, La.-----	59	29	2	4
					Tulsa, Okla.-----	70	41	7	4
EAST NORTH CENTRAL:	3,268	1,819	233	116					
Akron, Ohio-----	89	43	8	3	MOUNTAIN:	612	345	71	33
Canton, Ohio-----	44	26	6	2	Albuquerque, N. Mex.-----	88	46	10	10
Chicago, Ill.-----	1,012	527	67	30	Colorado Springs, Colo.-----	51	31	12	2
Cincinnati, Ohio-----	147	90	7	3	Denver, Colo.-----	149	81	19	9
Cleveland, Ohio-----	264	150	19	7	Ogden, Utah-----	22	13	4	2
Columbus, Ohio-----	134	71	2	8	Phoenix, Ariz.-----	136	77	4	4
Cuyahoga, Ohio-----	93	57	4	-	Pueblo, Colo.-----	28	17	14	-
Detroit, Mich.-----	494	282	56	20	Salt Lake City, Utah-----	66	35	1	5
Evansville, Ind.-----	44	31	1	-	Tucson, Ariz.-----	72	45	7	1
Flint, Mich.-----	73	42	4	6					
Fort Wayne, Ind.-----	44	28	4	1	PACIFIC:	1,899	1,148	71	80
Gary, Ind.-----	31	8	4	-	Berkeley, Calif.-----	19	13	-	-
Grand Rapids, Mich.-----	72	57	7	2	Fresno, Calif.-----	61	37	5	3
Indianapolis, Ind.-----	213	122	10	7	Glendale, Calif.-----	32	18	1	1
Madison, Wis.-----	52	25	6	5	Honolulu, Hawaii-----	57	28	1	8
Milwaukee, Wis.-----	172	96	9	13	Long Beach, Calif.-----	93	68	5	3
Peoria, Ill.-----	44	23	-	3	Los Angeles, Calif.-----	599	363	19	27
Rockford, Ill.-----	43	19	6	2	Oakland, Calif.-----	113	69	6	4
South Bend, Ind.-----	34	21	4	-	Pasadena, Calif.-----	53	40	4	-
Toledo, Ohio-----	89	53	8	3	Portland, Oreg.-----	133	84	2	5
Youngstown, Ohio-----	80	48	1	1	Sacramento, Calif.-----	81	42	1	5
					San Diego, Calif.-----	108	54	6	11
WEST NORTH CENTRAL:	950	537	72	36	San Francisco, Calif.-----	237	138	9	4
Des Moines, Iowa-----	72	43	9	5	San Jose, Calif.-----	39	27	1	3
Ouluth, Minn.-----	15	11	6	-	Seattle, Wash.-----	165	96	4	6
Kansas City, Kans.-----	46	23	10	4	Spokane, Wash.-----	67	43	7	-
Kansas City, Mo.-----	162	87	8	3	Tacoma, Wash.-----	42	28	-	-
Lincoln, Nebr.-----	34	23	3	2					
Minneapolis, Minn.-----	141	85	11	1	Total	15,219	8,653	1,051	603
Omaha, Nebr.-----	77	43	3	5					
St. Louis, Mo.-----	284	154	7	10	Cumulative Totals				
St. Paul, Minn.-----	64	41	6	2	including reported corrections for previous weeks				
Wichita, Kans.-----	55	27	9	4	All Causes, All Ages -----	651,945			
					All Causes, Age 65 and over-----	374,375			
					Pneumonia and Influenza, All Ages-----	26,391			
					All Causes, Under 1 Year of Age-----	30,672			

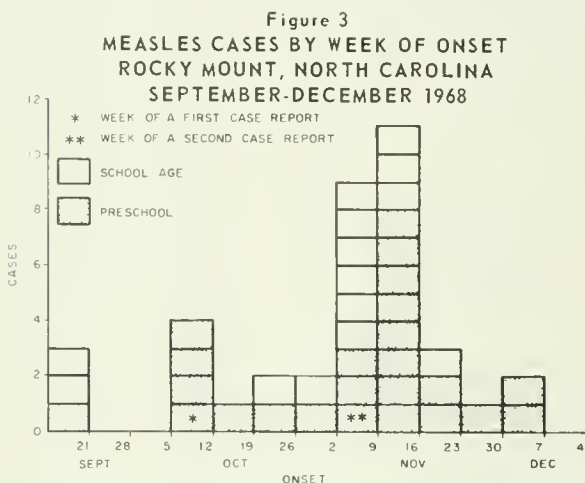
*Estimate - based on average percent of divisional total.

TYPHOID FEVER - (Continued from page 470)

dence implicates the water supply as the most likely vehicle, but bacteriologic confirmation of this could not be obtained. The possibility that contaminated food contributed to the transmission cannot be definitely excluded. (Reported by E. A. Belden, M.D., M.P.H., State Epidemiologist, and Elmer R. Spurrier, Dr. P.H., Director, Central Laboratory, Missouri Department of Health and Welfare; Mr. William Johnson, Sanitarian, Audrain County Health Department; Narman J. Rose, M.D., M.P.H., State Epidemiologist, and Mary Louise Brown, M.S., Division of Laboratories, Illinois Department of Public Health; D. L. Carpenter, M.D., M.P.H., State Epidemiologist, Kansas State Department of Health; M. H. Gaadwin, Ph.D., State Epidemiologist, Arizona State Department of Health; D. L. Blakey, M.D., M.P.H., State Epidemiologist, Mississippi State Board of Health; Epidemiological Services Laboratory Section, Epidemiology Program, NCDC; and a team of EIS Officers.)

MEASLES - Rocky Mount, North Carolina

From mid-October through early December 1968, a total of 38 cases of measles were reported from Rocky Mount, North Carolina, population 40,000 (Figure 3). Of these cases, 24 occurred in preschool age children. A nursery school with an enrollment of 45 accounted for 15 of these 24 cases. Most of the school age children who were ill attended an elementary school located less than 1 block from the nursery school.



A measles immunization program had been conducted in the first three grades of all Rocky Mount elementary schools in the spring of 1968. Because the distribution of cases indicated that this epidemic occurred primarily in a nursery school setting, an intensive immunization program was planned for preschool children. During the week of November 25, approximately 570 individuals were immunized. No measles cases have been reported from Rocky Mount since December 7, 1968.

(Reported by J. S. Chamblee, M.D., Health Director, Nash and Edgecombe Counties; Martin P. Hines, D.V.M., M.P.H., Director, Division of Epidemiology, North Carolina State Board of Health; and two EIS Officers.)

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DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER

CHIEF, EPIDEMIOLOGY PROGRAM

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ATTN: THE EDITOR

MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY. COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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